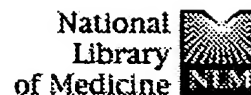


WEST Search History

DATE: Wednesday, September 03, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L15	L12 AND L14	139	L15
L14	SV40 OR viral cyclin	20250	L14
L13	L12 AND SV40	139	L13
L12	(VP22)	305	L12
L11	L10 AND SV40	26	L11
L10	L9 AND VP22	42	L10
L9	((530/300 530/350)!.CCLS.)	13303	L9
L8	Cardoso-C-M.IN.	1	L8
L7	Cardoso-M-Christina.IN.	0	L7
L6	Cardoso-M-C.IN.	1	L6
L5	Cardoso-M.IN.	3	L5
L4	Cardoso.IN.	340	L4
L3	Leonhardt-H.IN.	45	L3
L2	Leonhardt-Heinrich.IN.	2	L2
L1	(Leonhardt.IN.)	884	L1

END OF SEARCH HISTORY



PubMed

Nucleotide

Protein

Genome

Structure

PMC

Taxonomy

OMIM

Book

Search PubMed

for VP22

Go

Clear

☒ Limits

Preview/Index

History

Clipboard

Details

About Entrez

Limits: only items with abstracts, English

Text Version

Display

Summary

Show: 200

Sort

Send to

Text

Items 1-94 of 94

One page.

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

Cubby

Related Resources

Order Documents

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

Privacy Policy

☐ 1: [Stroh C, Held J, Samraj AK, Schulze-Osthoff K.](#)[Related Articles, Links](#)

Specific inhibition of transcription factor NF-kappaB through intracellular protein delivery of I kappaBalpha by the Herpes virus protein VP22. *Oncogene*. 2003 Aug 14;22(34):5367-73. PMID: 12917639 [PubMed - in process]

☐ 2: [Van Leeuwen H, Okuwaki M, Hong R, Chakravarti D, Nagata K, O'Hare P.](#)[Related Articles, Links](#)

Herpes simplex virus type 1 tegument protein VP22 interacts with TAF-I proteins and inhibits nucleosome assembly but not regulation of histone acetylation by INHAT. *J Gen Virol*. 2003 Sep;84(Pt 9):2501-2510. PMID: 12917472 [PubMed - as supplied by publisher]

☐ 3: [Rutjes SA, Bosma PJ, Rohn JL, Noteborn MH, Wesseling JG.](#)[Related Articles, Links](#)

Induction of insolubility by herpes simplex virus VP22 precludes intercellular trafficking of N-terminal Apoptin-VP22 fusion proteins. *J Mol Med*. 2003 Jul 16 [Epub ahead of print] PMID: 12879152 [PubMed - as supplied by publisher]

☐ 4: [Lundberg M, Wikstrom S, Johansson M.](#)[Related Articles, Links](#)

Cell surface adherence and endocytosis of protein transduction domains. *Mol Ther*. 2003 Jul;8(1):143-50. PMID: 12842437 [PubMed - in process]

☐ 5: [Kong B, Wang W, Liu C, Song L, Ma D, Qu X, Jiang J, Yang X, Zhang Y, Wang B, Wei MQ, Yang Q.](#)[Related Articles, Links](#)

Efficacy of lentivirus-mediated and MUC1 antibody-targeted VP22-TK/GCV suicide gene therapy for ovarian cancer. *In Vivo*. 2003 Mar-Apr;17(2):153-6. PMID: 12792977 [PubMed - in process]

☐ 6: [Namiki S, Tomida T, Tanabe M, Iino M, Hirose K.](#)[Related Articles, Links](#)



















Intracellular delivery of glutathione S-transferase into mammalian cells. *Biochem Biophys Res Commun*. 2003 Jun 6;305(3):592-7. PMID: 12763035 [PubMed - indexed for MEDLINE]


















☐ 7: [Kretz A, Wybranietz WA, Hermening S, Lauer UM, Isenmann S.](#)[Related Articles, Links](#)




















HSV-1 VP22 augments adenoviral gene transfer to CNS neurons in the retina and striatum in vivo. *Mol Ther*. 2003 May;7(5):659-69. PMID: 12718909 [PubMed - in process]











☐ 8: [Boenicke L, Chu K, Pauls R, Tams C, Kruse ML, Kurdow R, Schniewind B, Bohle A, Kremer B, Kalthoff H.](#)[Related Articles, Links](#)

Efficient dose-dependent and time-dependent protein transduction of


-  **pancreatic carcinoma cells in vitro and in vivo using purified VP22-EGFP fusion protein.**
J Mol Med. 2003 Mar;81(3):205-13. Epub 2003 Mar 18.
PMID: 12682729 [PubMed - in process]
-  **9:** [Brignati MJ, Loomis JS, Wills JW, Courtney RJ.](#) [Related Articles, Links](#)
-  **Membrane association of VP22, a herpes simplex virus type 1 tegument protein.**
J Virol. 2003 Apr;77(8):4888-98.
PMID: 12663795 [PubMed - indexed for MEDLINE]
-  **10:** [Walters JN, Sexton GL, McCaffery JM, Desai P.](#) [Related Articles, Links](#)
-  **Mutation of single hydrophobic residue I27, L35, F39, L58, L65, L67, or L71 in the N terminus of VP5 abolishes interaction with the scaffold protein and prevents closure of herpes simplex virus type 1 capsid shells.**
J Virol. 2003 Apr;77(7):4043-59.
PMID: 12634364 [PubMed - indexed for MEDLINE]
-  **11:** [Brewis ND, Phelan A, Normand N, Choolun E, O'Hare P.](#) [Related Articles, Links](#)
-  **Particle assembly incorporating a VP22-BH3 fusion protein, facilitating intracellular delivery, regulated release, and apoptosis.**
Mol Ther. 2003 Feb;7(2):262-70.
PMID: 12597915 [PubMed - in process]
-  **12:** [Zavaglia D, Favrot MC, Eymin B, Tenaud C, Coll JL.](#) [Related Articles, Links](#)
-  **Intercellular trafficking and enhanced in vivo antitumour activity of a non-virally delivered P27-VP22 fusion protein.**
Gene Ther. 2003 Feb;10(4):314-25.
PMID: 12595890 [PubMed - indexed for MEDLINE]
-  **13:** [Roy I, Holle L, Song W, Holle E, Wagner T, Yu X.](#) [Related Articles, Links](#)
-  **Efficient translocation and apoptosis induction by adenovirus encoded VP22-p53 fusion protein in human tumor cells in vitro.**
Anticancer Res. 2002 Nov-Dec;22(6A):3185-9.
PMID: 12530063 [PubMed - indexed for MEDLINE]
-  **14:** [Lyman MG, Demmin GL, Banfield BW.](#) [Related Articles, Links](#)
-  **The attenuated pseudorabies virus strain Bartha fails to package the tegument proteins Us3 and VP22.**
J Virol. 2003 Jan;77(2):1403-14.
PMID: 12502856 [PubMed - indexed for MEDLINE]
-  **15:** [Cashman SM, Sadowski SL, Morris DJ, Frederick J, Kumar-Singh R.](#) [Related Articles, Links](#)
-  **Intercellular Trafficking of Adenovirus-Delivered HSV VP22 from the Retinal Pigment Epithelium to the Photoreceptors-Implications for Gene Therapy.**
Mol Ther. 2002 Dec;6(6):813-23.
PMID: 12498777 [PubMed - in process]
-  **16:** [Sherman MP, Schubert U, Williams SA, de Noronha CM, Kreisberg JF, Henklein P, Greene WC.](#) [Related Articles, Links](#)
-  **HIV-1 Vpr displays natural protein-transducing properties: implications for viral pathogenesis.**
Virology. 2002 Oct 10;302(1):95-105.
PMID: 12429519 [PubMed - indexed for MEDLINE]
-  **17:** [Ye D, Xu D, Singer AU, Juliano RL.](#) [Related Articles, Links](#)


-  Evaluation of strategies for the intracellular delivery of proteins.
Pharm Res. 2002 Sep;19(9):1302-9.
PMID: 12403066 [PubMed - indexed for MEDLINE]
-  **18:** [Hutchinson I, Whiteley A, Browne H, Elliott G.](#) [Related Articles, Links](#)
-  Sequential localization of two herpes simplex virus tegument proteins to punctate nuclear dots adjacent to ICP0 domains.
J Virol. 2002 Oct;76(20):10365-73.
PMID: 12239313 [PubMed - indexed for MEDLINE]
-  **19:** [Miranda-Saksena M, Boadle RA, Armati P, Cunningham AL.](#) [Related Articles, Links](#)
-  In rat dorsal root ganglion neurons, herpes simplex virus type 1 tegument forms in the cytoplasm of the cell body.
J Virol. 2002 Oct;76(19):9934-51.
PMID: 12208970 [PubMed - indexed for MEDLINE]
-  **20:** [Zender L, Kock R, Eckhard M, Frericks B, Gosling T, Gebhardt T, Drobek S, Galanski M, Kuhnel F, Manns M, Kubicka S.](#) [Related Articles, Links](#)
-  Gene therapy by intrahepatic and intratumoral trafficking of p53-VP22 induces regression of liver tumors.
Gastroenterology. 2002 Aug;123(2):608-18.
PMID: 12145813 [PubMed - indexed for MEDLINE]
-  **21:** [Fuchs W, Klupp BG, Granzow H, Hengartner C, Brack A, Mundi A, Enquist LW, Mettenleiter TC.](#) [Related Articles, Links](#)
-  Physical interaction between envelope glycoproteins E and M of pseudorabies virus and the major tegument protein UL49.
J Virol. 2002 Aug;76(16):8208-17.
PMID: 12134026 [PubMed - indexed for MEDLINE]
-  **22:** [Sciortino MT, Taddeo B, Poon AP, Mastino A, Roizman B.](#) [Related Articles, Links](#)
-  Of the three tegument proteins that package mRNA in herpes simplex virions, one (VP22) transports the mRNA to uninfected cells for expression prior to viral infection.
Proc Natl Acad Sci U S A. 2002 Jun 11;99(12):8318-23.
PMID: 12060774 [PubMed - indexed for MEDLINE]
-  **23:** [Zender L, Kuhnel F, Kock R, Manns M, Kubicka S.](#) [Related Articles, Links](#)
-  VP22-mediated intercellular transport of p53 in hepatoma cells in vitro and in vivo.
Cancer Gene Ther. 2002 Jun;9(6):489-96.
PMID: 12032659 [PubMed - indexed for MEDLINE]
-  **24:** [Morris SJ, Smith H, Sweet C.](#) [Related Articles, Links](#)
-  Exploitation of the Herpes simplex virus translocating protein VP22 to carry influenza virus proteins into cells for studies of apoptosis: direct confirmation that neuraminidase induces apoptosis and indications that other proteins may have a role.
Arch Virol. 2002 May;147(5):961-79.
PMID: 12021867 [PubMed - indexed for MEDLINE]
-  **25:** [Martin A, O'Hare P, McLauchlan J, Elliott G.](#) [Related Articles, Links](#)
-  Herpes simplex virus tegument protein VP22 contains overlapping domains for cytoplasmic localization, microtubule interaction, and chromatin binding.
J Virol. 2002 May;76(10):4961-70.
PMID: 11967313 [PubMed - indexed for MEDLINE]
- [Wybranietz WA, Gross CD, Phelan A, O'Hare P, Spiegel M.](#)


-  **26:** [Graepler F, Bitzer M, Stahler P, Gregor M, Lauer UM.](#) [Related Articles, Links](#)
 **Enhanced suicide gene effect by adenoviral transduction of a VP22-cytosine deaminase (CD) fusion gene.**
 Gene Ther. 2001 Nov;8(21):1654-64.
 PMID: 11895004 [PubMed - indexed for MEDLINE]
-  **27:** [Michel N, Osen W, Gissmann L, Schumacher TN, Zentgraf H, Muller M.](#) [Related Articles, Links](#)
 **Enhanced immunogenicity of HPV 16 E7 fusion proteins in DNA vaccination.**
 Virology. 2002 Mar 1;294(1):47-59.
 PMID: 11886264 [PubMed - indexed for MEDLINE]
-  **28:** [van Leeuwen H, Elliott G, O'Hare P.](#) [Related Articles, Links](#)
 **Evidence of a role for nonmuscle myosin II in herpes simplex virus type 1 egress.**
 J Virol. 2002 Apr;76(7):3471-81.
 PMID: 11884571 [PubMed - indexed for MEDLINE]
-  **29:** [Diefenbach RJ, Miranda-Saksena M, Diefenbach E, Holland DJ, Boadle RA, Armati PJ, Cunningham AL.](#) [Related Articles, Links](#)
 **Herpes simplex virus tegument protein US11 interacts with conventional kinesin heavy chain.**
 J Virol. 2002 Apr;76(7):3282-91.
 PMID: 11884553 [PubMed - indexed for MEDLINE]
-  **30:** [O'Donnell LA, Clemmer JA, Czymmek K, Schmidt CJ.](#) [Related Articles, Links](#)
 **Marek's disease virus VP22: subcellular localization and characterization of carboxyl terminal deletion Mutations.**
 Virology. 2002 Jan 20;292(2):235-40.
 PMID: 11878926 [PubMed - indexed for MEDLINE]
-  **31:** [Soden J, Stevens A, Ray DW.](#) [Related Articles, Links](#)
 **Genetic engineering of the glucocorticoid receptor by fusion with the herpes viral protein VP22 causes selective loss of transactivation.**
 J Endocrinol. 2002 Mar;172(3):615-25.
 PMID: 11874710 [PubMed - indexed for MEDLINE]
-  **32:** [Cheng WF, Hung CF, Hsu KF, Chai CY, He L, Polo JM, Slater LA, Ling M, Wu TC.](#) [Related Articles, Links](#)
 **Cancer immunotherapy using Sindbis virus replicon particles encoding a VP22-antigen fusion.**
 Hum Gene Ther. 2002 Mar 1;13(4):553-68.
 PMID: 11874633 [PubMed - indexed for MEDLINE]
-  **33:** [Hung CF, He L, Juang J, Lin TJ, Ling M, Wu TC.](#) [Related Articles, Links](#)
 **Improving DNA vaccine potency by linking Marek's disease virus type 1 VP22 to an antigen.**
 J Virol. 2002 Mar;76(6):2676-82.
 PMID: 11861834 [PubMed - indexed for MEDLINE]
-  **34:** [Lundberg M, Johansson M.](#) [Related Articles, Links](#)
 **Positively charged DNA-binding proteins cause apparent cell membrane translocation.**
 Biochem Biophys Res Commun. 2002 Feb 22;291(2):367-71.
 PMID: 11846414 [PubMed - indexed for MEDLINE]
-  **35:** [Lai Z, Brady RO.](#) [Related Articles, Links](#)


-  **Gene transfer into the central nervous system in vivo using a recombinant lentivirus vector.**
J Neurosci Res. 2002 Feb 1;67(3):363-71.
PMID: 11813241 [PubMed - indexed for MEDLINE]
-  **36: Marples B, Greco O, Joiner MC, Scott SD.** [Related Articles, Links](#)
Molecular approaches to chemo-radiotherapy.
Eur J Cancer. 2002 Jan;38(2):231-9. Review.
PMID: 11803140 [PubMed - indexed for MEDLINE]
-  **37: Dorange F, Tischer BK, Vautherot JF, Osterrieder N.** [Related Articles, Links](#)
Characterization of Marek's disease virus serotype 1 (MDV-1) deletion mutants that lack UL46 to UL49 genes: MDV-1 UL49, encoding VP22, is indispensable for virus growth.
J Virol. 2002 Feb;76(4):1959-70.
PMID: 11799190 [PubMed - indexed for MEDLINE]
-  **38: del Rio T, Werner HC, Enquist LW.** [Related Articles, Links](#)
The pseudorabies virus VP22 homologue (UL49) is dispensable for virus growth in vitro and has no effect on virulence and neuronal spread in rodents.
J Virol. 2002 Jan;76(2):774-82.
PMID: 11752167 [PubMed - indexed for MEDLINE]
-  **39: Morris MC, Depollier J, Mery J, Heitz F, Divita G.** [Related Articles, Links](#)
A peptide carrier for the delivery of biologically active proteins into mammalian cells.
Nat Biotechnol. 2001 Dec;19(12):1173-6.
PMID: 11731788 [PubMed - indexed for MEDLINE]
-  **40: Derer W, Easwaran HP, Leonhardt H, Cardoso MC.** [Related Articles, Links](#)
A novel approach to induce cell cycle reentry in terminally differentiated muscle cells.
FASEB J. 2002 Jan;16(1):132-3. Epub 2001 Nov 29.
PMID: 11729099 [PubMed - indexed for MEDLINE]
-  **41: Blouin A, Blaho JA.** [Related Articles, Links](#)
Assessment of the subcellular localization of the herpes simplex virus structural protein VP22 in the absence of other viral gene products.
Virus Res. 2001 Dec 4;81(1-2):57-68.
PMID: 11682125 [PubMed - indexed for MEDLINE]
-  **42: Geiss BJ, Tavis JE, Metzger LM, Leib DA, Morrison LA.** [Related Articles, Links](#)
Temporal regulation of herpes simplex virus type 2 VP22 expression and phosphorylation.
J Virol. 2001 Nov;75(22):10721-9.
PMID: 11602713 [PubMed - indexed for MEDLINE]
-  **43: Ren X, Harms JS, Splitter GA.** [Related Articles, Links](#)
Tyrosine phosphorylation of bovine herpesvirus 1 tegument protein VP22 correlates with the incorporation of VP22 into virions.
J Virol. 2001 Oct;75(19):9010-7.
PMID: 11533164 [PubMed - indexed for MEDLINE]
-  **44: Aints A, Guven H, Gahrton G, Smith CI, Dilber MS.** [Related Articles, Links](#)
Mapping of herpes simplex virus-1 VP22 functional domains for inter- and subcellular protein targeting.


Gene Ther. 2001 Jul;8(14):1051-6.
PMID: 11526452 [PubMed - indexed for MEDLINE]


-  **45:** Wills KN, Atencio IA, Avanzini JB, Neuteboom S, Phelan A, Philopena J, Sutjipto S, Vaillancourt MT, Wen SF, Ralston RO, Johnson DE. [Related Articles, Links](#)

 Intratumoral spread and increased efficacy of a p53-VP22 fusion protein expressed by a recombinant adenovirus.
J Virol. 2001 Sep;75(18):8733-41.
PMID: 11507218 [PubMed - indexed for MEDLINE]


-  **46:** Kotsakis A, Pomeranz LE, Blouin A, Blaho JA. [Related Articles, Links](#)


 Microtubule reorganization during herpes simplex virus type 1 infection facilitates the nuclear localization of VP22, a major virion tegument protein.
J Virol. 2001 Sep;75(18):8697-711.
PMID: 11507215 [PubMed - indexed for MEDLINE]


-  **47:** Ren X, Harms JS, Splitter GA. [Related Articles, Links](#)


 Bovine herpesvirus 1 tegument protein VP22 interacts with histones, and the carboxyl terminus of VP22 is required for nuclear localization.
J Virol. 2001 Sep;75(17):8251-8.
PMID: 11483770 [PubMed - indexed for MEDLINE]


-  **48:** Oliveira SC, Harms JS, Afonso RR, Splitter GA. [Related Articles, Links](#)


 A genetic immunization adjuvant system based on BVP22-antigen fusion.
Hum Gene Ther. 2001 Jul 1;12(10):1353-9.
PMID: 11440628 [PubMed - indexed for MEDLINE]


-  **49:** Ford KG, Souberbielle BE, Darling D, Farzaneh F. [Related Articles, Links](#)


 Protein transduction: an alternative to genetic intervention?
Gene Ther. 2001 Jan;8(1):1-4. Review.
PMID: 11402295 [PubMed - indexed for MEDLINE]


-  **50:** Spengler M, Niesen N, Grose C, Ruyechan WT, Hay J. [Related Articles, Links](#)

 Interactions among structural proteins of varicella zoster virus.
Arch Virol Suppl. 2001;(17):71-9.
PMID: 11339553 [PubMed - indexed for MEDLINE]


-  **51:** Liu CS, Kong B, Xia HH, Ellem KA, Wei MQ. [Related Articles, Links](#)

 VP22 enhanced intercellular trafficking of HSV thymidine kinase reduced the level of ganciclovir needed to cause suicide cell death.
J Gene Med. 2001 Mar-Apr;3(2):145-52.
PMID: 11318113 [PubMed - indexed for MEDLINE]

-  **52:** Hung CF, Cheng WF, Chai CY, Hsu KF, He L, Ling M, Wu TC. [Related Articles, Links](#)

 Improving vaccine potency through intercellular spreading and enhanced MHC class I presentation of antigen.
J Immunol. 2001 May 1;166(9):5733-40.
PMID: 11313416 [PubMed - indexed for MEDLINE]

-  **53:** Falnes PO, Wesche J, Olsnes S. [Related Articles, Links](#)

 Ability of the Tat basic domain and VP22 to mediate cell binding, but not membrane translocation of the diphtheria toxin A-fragment.
Biochemistry. 2001 Apr 10;40(14):4349-58.
PMID: 11284691 [PubMed - indexed for MEDLINE]

-  **54:** Normand N, van Leeuwen H, O'Hare P. [Related Articles, Links](#)

**Particle formation by a conserved domain of the herpes simplex virus protein VP22 facilitating protein and nucleic acid delivery.**

J Biol Chem. 2001 May 4;276(18):15042-50. Epub 2001 Jan 18.
PMID: 11278656 [PubMed - indexed for MEDLINE]



55: [Schwartz JJ, Zhang S.](#)

[Related Articles, Links](#)

**Peptide-mediated cellular delivery.**

Curr Opin Mol Ther. 2000 Apr;2(2):162-7. Review.
PMID: 11249637 [PubMed - indexed for MEDLINE]



56: [Donnelly M, Elliott G.](#)

[Related Articles, Links](#)

**Fluorescent tagging of herpes simplex virus tegument protein VP13/14 in virus infection.**

J Virol. 2001 Mar;75(6):2575-83.
PMID: 11222680 [PubMed - indexed for MEDLINE]



57: [Rajcani J, Durmanova V.](#)

[Related Articles, Links](#)

**Early expression of herpes simplex virus (HSV) proteins and reactivation of latent infection.**

Folia Microbiol (Praha). 2000;45(1):7-28. Review.
PMID: 11200675 [PubMed - indexed for MEDLINE]



58: [Cheng WF, Hung CH, Chai CY, Hsu KF, He L, Ling M, Wu TC.](#)

[Related Articles, Links](#)

**Enhancement of sindbis virus self-replicating RNA vaccine potency by linkage of herpes simplex virus type 1 VP22 protein to antigen.**

J Virol. 2001 Mar;75(5):2368-76.
PMID: 11160740 [PubMed - indexed for MEDLINE]



59: [Koelle DM, Schomogvi M, McClurkan C, Raymond SN, Chen HB.](#)

[Related Articles, Links](#)

**CD4 T-cell responses to herpes simplex virus type 2 major capsid protein VP5: comparison with responses to tegument and envelope glycoproteins.**

J Virol. 2000 Dec;74(23):11422-5.
PMID: 11070045 [PubMed - indexed for MEDLINE]



60: [Lai Z, Han I, Zirzow G, Brady RO, Reiser J.](#)

[Related Articles, Links](#)

**Intercellular delivery of a herpes simplex virus VP22 fusion protein from cells infected with lentiviral vectors.**

Proc Natl Acad Sci U S A. 2000 Oct 10;97(21):11297-302.
PMID: 11027330 [PubMed - indexed for MEDLINE]



61: [Pomeranz LE, Blaho JA.](#)

[Related Articles, Links](#)

**Assembly of infectious Herpes simplex virus type 1 virions in the absence of full-length VP22.**

J Virol. 2000 Nov;74(21):10041-54.
PMID: 11024133 [PubMed - indexed for MEDLINE]



62: [Dorange F, El Mehdaoui S, Pichon C, Coursaget P, Vautherot JF.](#)

[Related Articles, Links](#)

**Marek's disease virus (MDV) homologues of herpes simplex virus type 1 UL49 (VP22) and UL48 (VP16) genes: high-level expression and characterization of MDV-1 VP22 and VP16.**

J Gen Virol. 2000 Sep;81(Pt 9):2219-30.
PMID: 10950980 [PubMed - indexed for MEDLINE]
























63: [Kuelitz LA, Normand N, O'Hare P, Middaugh CR.](#)

[Related Articles, Links](#)

**Conformational lability of herpesvirus protein VP22.**

J Biol Chem. 2000 Oct 27;275(43):33213-21.
PMID: 10913125 [PubMed - indexed for MEDLINE]

-  **64:** [Aints A, Dilber MS, Smith CI.](#) Related Articles, Links
 **Intercellular spread of GFP-VP22.**
 J Gene Med. 1999 Jul-Aug;1(4):275-9.
 PMID: 10738560 [PubMed - indexed for MEDLINE]
-  **65:** [Wybranietz WA, Prinz F, Spiegel M, Schenk A, Bitzer M, Gregor M, Lauer UM.](#) Related Articles, Links
 **Quantification of VP22-GFP spread by direct fluorescence in 15 commonly used cell lines.**
 J Gene Med. 1999 Jul-Aug;1(4):265-74.
 PMID: 10738559 [PubMed - indexed for MEDLINE]
-  **66:** [Harms JS, Ren X, Oliveira SC, Splitter GA.](#) Related Articles, Links
 **Distinctions between bovine herpesvirus 1 and herpes simplex virus type 1 VP22 tegument protein subcellular associations.**
 J Virol. 2000 Apr;74(7):3301-12.
 PMID: 10708447 [PubMed - indexed for MEDLINE]
-  **67:** [Elliott G, O'Hare P.](#) Related Articles, Links
 **Cytoplasm-to-nucleus translocation of a herpesvirus tegument protein during cell division.**
 J Virol. 2000 Mar;74(5):2131-41.
 PMID: 10666242 [PubMed - indexed for MEDLINE]
-  **68:** [Brewis N, Phelan A, Webb J, Drew J, Elliott G, O'Hare P.](#) Related Articles, Links
 **Evaluation of VP22 spread in tissue culture.**
 J Virol. 2000 Jan;74(2):1051-6.
 PMID: 10623773 [PubMed - indexed for MEDLINE]
-  **69:** [Derer W, Easwaran HP, Knopf CW, Leonhardt H, Cardoso MC.](#) Related Articles, Links
 **Direct protein transfer to terminally differentiated muscle cells.**
 J Mol Med. 1999 Aug;77(8):609-13.
 PMID: 10543392 [PubMed - indexed for MEDLINE]
-  **70:** [Pomeranz LE, Blaho JA.](#) Related Articles, Links
 **Modified VP22 localizes to the cell nucleus during synchronized herpes simplex virus type 1 infection.**
 J Virol. 1999 Aug;73(8):6769-81.
 PMID: 10400775 [PubMed - indexed for MEDLINE]
-  **71:** [Elliott G, O'Reilly D, O'Hare P.](#) Related Articles, Links
 **Identification of phosphorylation sites within the herpes simplex virus tegument protein VP22.**
 J Virol. 1999 Jul;73(7):6203-6.
 PMID: 10364384 [PubMed - indexed for MEDLINE]
-  **72:** [Dilber MS, Phelan A, Aints A, Mohamed AJ, Elliott G, Smith CI, O'Hare P.](#) Related Articles, Links
 **Intercellular delivery of thymidine kinase prodrug activating enzyme by the herpes simplex virus protein, VP22.**
 Gene Ther. 1999 Jan;6(1):12-21.
 PMID: 10341871 [PubMed - indexed for MEDLINE]
-  **73:** [Elliott G, O'Hare P.](#) Related Articles, Links
 **Intercellular trafficking of VP22-GFP fusion proteins.**
 Gene Ther. 1999 Jan;6(1):149-51.
 PMID: 10341888 [PubMed - indexed for MEDLINE]

 **74:** [Elliott G, O'Hare P.](#)


[Related Articles, Links](#)



Live-cell analysis of a green fluorescent protein-tagged herpes simplex virus infection.

J Virol. 1999 May;73(5):4110-9.

PMID: 10196307 [PubMed - indexed for MEDLINE]

 **75:** [Fang B, Xu B, Koch P, Roth JA.](#)


[Related Articles, Links](#)



Intercellular trafficking of VP22-GFP fusion proteins is not observed in cultured mammalian cells.

Gene Ther. 1998 Oct;5(10):1420-4.

PMID: 9930348 [PubMed - indexed for MEDLINE]

 **76:** [Morrison EE, Stevenson AJ, Wang YF, Meredith DM.](#)

[Related Articles, Links](#)



Differences in the intracellular localization and fate of herpes simplex virus tegument proteins early in the infection of Vero cells.

J Gen Virol. 1998 Oct;79 (Pt 10):2517-28.

PMID: 9780059 [PubMed - indexed for MEDLINE]

 **77:** [Koelle DM, Frank JM, Johnson ML, Kwok WW.](#)


[Related Articles, Links](#)



Recognition of herpes simplex virus type 2 tegument proteins by CD4 T cells infiltrating human genital herpes lesions.

J Virol. 1998 Sep;72(9):7476-83.

PMID: 9696844 [PubMed - indexed for MEDLINE]

 **78:** [Morrison EE, Wang YF, Meredith DM.](#)


[Related Articles, Links](#)



Phosphorylation of structural components promotes dissociation of the herpes simplex virus type 1 tegument.

J Virol. 1998 Sep;72(9):7108-14.

PMID: 9696804 [PubMed - indexed for MEDLINE]

 **79:** [Elliott G, O'Hare P.](#)

[Related Articles, Links](#)



Herpes simplex virus type 1 tegument protein VP22 induces the stabilization and hyperacetylation of microtubules.

J Virol. 1998 Aug;72(8):6448-55.

PMID: 9658087 [PubMed - indexed for MEDLINE]

 **80:** [Phelan A, Elliott G, O'Hare P.](#)


[Related Articles, Links](#)



Intercellular delivery of functional p53 by the herpesvirus protein VP22.

Nat Biotechnol. 1998 May;16(5):440-3.

PMID: 9592391 [PubMed - indexed for MEDLINE]

 **81:** [Liang X, Chow B, Babiuk LA.](#)

[Related Articles, Links](#)



Study of immunogenicity and virulence of bovine herpesvirus 1 mutants deficient in the UL49 homolog, UL49.5 homolog and dUTPase genes in cattle.

Vaccine. 1997 Jul;15(10):1057-64.

PMID: 9269047 [PubMed - indexed for MEDLINE]

 **82:** [Elliott G, O'Hare P.](#)

[Related Articles, Links](#)



Intercellular trafficking and protein delivery by a herpesvirus structural protein.

Cell. 1997 Jan 24;88(2):223-33.

PMID: 9008163 [PubMed - indexed for MEDLINE]

 **83:** [McLauchlan J.](#)


[Related Articles, Links](#)




The abundance of the herpes simplex virus type 1 UL37 tegument protein in virus particles is closely controlled.

J Gen Virol. 1997 Jan;78 (Pt 1):189-94.
PMID: 9010303 [PubMed - indexed for MEDLINE]


 **84:** [Elliott G, O'Reilly D, O'Hare P.](#) [Related Articles, Links](#)


 **Phosphorylation of the herpes simplex virus type 1 tegument protein VP22.**
Virology. 1996 Dec 1;226(1):140-5.
PMID: 8941333 [PubMed - indexed for MEDLINE]


 **85:** [Leslie J, Rixon FJ, McLauchlan J.](#) [Related Articles, Links](#)


 **Overexpression of the herpes simplex virus type 1 tegument protein VP22 increases its incorporation into virus particles.**
Virology. 1996 Jun 1;220(1):60-8.
PMID: 8659129 [PubMed - indexed for MEDLINE]


 **86:** [Elliott G, Mouzakis G, O'Hare P.](#) [Related Articles, Links](#)


 **VP16 interacts via its activation domain with VP22, a tegument protein of herpes simplex virus, and is relocated to a novel macromolecular assembly in coexpressing cells.**
J Virol. 1995 Dec;69(12):7932-41.
PMID: 7494306 [PubMed - indexed for MEDLINE]


 **87:** [Dargan DJ, Patel AH, Subak-Sharpe JH.](#) [Related Articles, Links](#)


 **PREPs: herpes simplex virus type 1-specific particles produced by infected cells when viral DNA replication is blocked.**
J Virol. 1995 Aug;69(8):4924-32.
PMID: 7609061 [PubMed - indexed for MEDLINE]


 **88:** [Liang X, Chow B, Li Y, Raggo C, Yoo D, Attah-Poku S, Babiuk LA.](#) [Related Articles, Links](#)

 **Characterization of bovine herpesvirus 1 UL49 homolog gene and product: bovine herpesvirus 1 UL49 homolog is dispensable for virus growth.**
J Virol. 1995 Jun;69(6):3863-7.
PMID: 7745736 [PubMed - indexed for MEDLINE]


 **89:** [Koptidesova D, Kopacek J, Zelnik V, Ross NL, Pastorekova S, Pastorek J.](#) [Related Articles, Links](#)


 **Identification and characterization of a cDNA clone derived from the Marek's disease tumour cell line RPL1 encoding a homologue of alpha-transinducing factor (VP16) of HSV-1.**
Arch Virol. 1995;140(2):355-62.
PMID: 7710361 [PubMed - indexed for MEDLINE]


 **90:** [Coulter LJ, Moss HW, Lang J, McGeoch DJ.](#) [Related Articles, Links](#)

 **A mutant of herpes simplex virus type 1 in which the UL13 protein kinase gene is disrupted.**
J Gen Virol. 1993 Mar;74 (Pt 3):387-95.
PMID: 8383174 [PubMed - indexed for MEDLINE]


 **91:** [Elliott GD, Meredith DM.](#) [Related Articles, Links](#)

 **The herpes simplex virus type 1 tegument protein VP22 is encoded by gene UL49.**
J Gen Virol. 1992 Mar;73 (Pt 3):723-6.
PMID: 1312128 [PubMed - indexed for MEDLINE]

 **92:** [Meredith DM, Lindsay JA, Halliburton IW, Whittaker GR.](#) [Related Articles, Links](#)

 **Post-translational modification of the tegument proteins (VP13 and VP14) of herpes simplex virus type 1 by glycosylation and phosphorylation.**
J Gen Virol. 1991 Nov;72 (Pt 11):2771-5.

PMID: 1658203 [PubMed - indexed for MEDLINE]

 **93:** [Baker TS, Newcomb WW, Booy FP, Brown JC, Steven AC.](#) [Related Articles, Links](#)



Three-dimensional structures of maturable and abortive capsids of equine herpesvirus 1 from cryoelectron microscopy.

J Virol. 1990 Feb;64(2):563-73.

PMID: 2153224 [PubMed - indexed for MEDLINE]

 **94:** [Knopf KW, Kaerner HC.](#) [Related Articles, Links](#)



Virus-specific basic phosphoproteins associated with herpes simplex virus type a (HSV-1) particles and the chromatin of HSV-1-infected cells.

J Gen Virol. 1980 Feb;46(2):405-14.

PMID: 6247428 [PubMed - indexed for MEDLINE]

 **Display**  **Summary**  Show:  **200**  **Sort**   **Send to**  **Text** 

Items 1-94 of 94 One page.

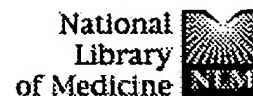
[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Freedom of Information Act](#) | [Disclaimer](#)

Aug 6 2003 12:56:11



PubMed

Nucleotide

Protein

Genome

Structure

PMC

Taxonomy

OMIM

Book

Search PubMed

for cyclin AND VP22

Go

Clear

☒ Limits

Preview/Index

History

Clipboard

Details

About Entrez

Limits: only items with abstracts, English

Text Version

Display

Summary

Show:

20

Sort

Send to

Text

Items 1-3 of 3

One page.

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

Cubby

Related Resources

Order Documents

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

Privacy Policy

☐ 1: [Zavaglia D, Favrot MC, Eymin B, Tenaud C, Coll JL.](#)[Related Articles, Links](#)

Intercellular trafficking and enhanced in vivo antitumour activity of a non-virally delivered P27-VP22 fusion protein.

Gene Ther. 2003 Feb;10(4):314-25.

PMID: 12595890 [PubMed - indexed for MEDLINE]

☐ 2: [Roy L, Holle L, Song W, Holle E, Wagner T, Yu X.](#)[Related Articles, Links](#)

Efficient translocation and apoptosis induction by adenovirus encoded VP22-p53 fusion protein in human tumor cells in vitro.

Anticancer Res. 2002 Nov-Dec;22(6A):3185-9.

PMID: 12530063 [PubMed - indexed for MEDLINE]

☐ 3: [Wills KN, Atencio IA, Avanzini JB, Neuteboom S, Phelan A, Philopena J, Sutjipto S, Vaillancourt MT, Wen SF, Ralston RO, Johnson DE.](#)[Related Articles, Links](#)

Intratumoral spread and increased efficacy of a p53-VP22 fusion protein expressed by a recombinant adenovirus.

J Virol. 2001 Sep;75(18):8733-41.

PMID: 11507218 [PubMed - indexed for MEDLINE]

[Write to the Help Desk](#)[NCBI | NLM | NIH](#)[Department of Health & Human Services](#)[Freedom of Information Act | Disclaimer](#)

Aug 6 2003 12:56:11

Welcome to STN International! Enter x:x
***** Welcome STN International *****
***** STN Columbus *****

FILE 'HOME' ENTERED AT 12:22:20 ON 03 SEP 2003

=> file CAPLUS

=> s VP22

L1 184 VP22

=> s viral cyclin

122964 VIRAL

7 VIRALS

122970 VIRAL

(VIRAL OR VIRALS)

17963 CYCLIN

9029 CYCLINS

19263 CYCLIN

(CYCLIN OR CYCLINS)

L2 41 VIRAL CYCLIN

(VIRAL(W)CYCLIN)

=> S SV40 T antigen

13100 SV40

693052 T

240456 ANTIGEN

191894 ANTIGENS

298380 ANTIGEN

(ANTIGEN OR ANTIGENS)

L3 1486 SV40 T ANTIGEN

(SV40(W)T(W)ANTIGEN)

=> S L1 AND L2 AND L3

L4 1 L1 AND L2 AND L3

=> D L4

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:45029 CAPLUS

DN 134:91095

TI Method for tissue regeneration using fusion proteins

IN Leonhardt, Heinrich; Cardoso, Cristina M.

PA Max-Delbrueck-Centrum fuer Molekulare Medizin, Germany

SO Ger. Offen., 4 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19933089	A1	20010118	DE 1999-19933089	19990715
	WO 2001005418	A2	20010125	WO 2000-DE2258	20000712
	WO 2001005418	A3	20010719		
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1198240	A2	20020424	EP 2000-954316	20000712
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	JP 2003504411	T2	20030204	JP 2001-510472	20000712
PRAI	DE 1999-19933089	A	19990715		
	WO 2000-DE2258	W	20000712		

=> S L1 AND L3

L5 1 L1 AND L3

=> D L5

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:45029 CAPLUS

DN 134:91095

TI Method for tissue regeneration using fusion proteins

IN Leonhardt, Heinrich; Cardoso, Cristina M.

PA Max-Delbrueck-Centrum fuer Molekulare Medizin, Germany

SO Ger. Offen., 4 pp.

CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19933089	A1	20010118	DE 1999-19933089	19990715
	WO 2001005418	A2	20010125	WO 2000-DE2258	20000712
	WO 2001005418	A3	20010719		
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1198240	A2	20020424	EP 2000-954316	20000712
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	JP 2003504411	T2	20030204	JP 2001-510472	20000712
PRAI	DE 1999-19933089	A	19990715		
	WO 2000-DE2258	W	20000712		

=> S L1
L6 184 VP22

=> S L6 AND regeneration
89208 REGENERATION
572 REGENERATIONS
89486 REGENERATION
(REGENERATION OR REGENERATIONS)
L7 3 L6 AND REGENERATION

=> D L7 1-3

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:335301 CAPLUS
DN 138:332887
TI Transient immortalization of animal cells for use in transplants and treatment of degenerative diseases
IN Kueper, Jan-Heiner; Meyer, Ralph; Meyer-Ficca, Mirella; Kuhn, Anne
PA Heart Biosystems G.m.b.H., Germany
SO PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003035884	A2	20030501	WO 2002-EP11200	20021007
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	DE 2001-10152972	A	20011018		

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:55990 CAPLUS
DN 136:228836
TI A novel approach to induce cell cycle reentry in terminally differentiated muscle cells
AU Derer, Wolfgang; Easwaran, Hariharan P.; Leonhardt, Heinrich; Cardoso, M. Cristina
CS Max Delbrueck Center for Molecular Medicine, Berlin, 13125, Germany
SO FASEB Journal (2002), 16(1), 132-135, 10.1096/fj.01-0500fje
CODEN: FAJOEC; ISSN: 0892-6638
PB Federation of American Societies for Experimental Biology
DT Journal
LA English
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:45029 CAPLUS
DN 134:91095
TI Method for tissue ***regeneration*** using fusion proteins
IN Leonhardt, Heinrich; Cardoso, Cristina M.
PA Max-Delbrueck-Centrum fuer Molekulare Medizin, Germany
SO Ger. Offen., 4 pp.
CODEN: GWXXBX

DT Patent
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19933089	A1	20010118	DE 1999-19933089	19990715
	WO 2001005418	A2	20010125	WO 2000-DE2258	20000712
	WO 2001005418	A3	20010719		
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1198240	A2	20020424	EP 2000-954316	20000712
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	JP 2003504411	T2	20030204	JP 2001-510472	20000712
PRAI	DE 1999-19933089	A	19990715		
	WO 2000-DE2258	W	20000712		

STN INTERNATIONAL LOGOFF AT 12:23:32 ON 03 SEP 2003